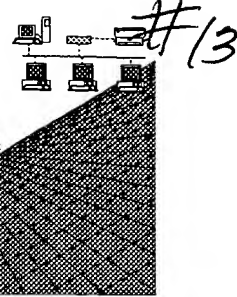n/a

# RAW SEQUENCE LISTING
## ERROR REPORT

APR 1 7 2000

TECH CENTER 1600/2900

#13

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: _09/186,869_

Art Unit / Team No. : _1634_

Date Processed by STIC: _5/20/99_

THE ATTACHED PRINTOUT EXPLAINS THE **ERRORS DETECTED.**

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,

2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

ARTI SHAH 703-308-4212

# Raw Sequence Listing Error Summary

| ERROR DETECTED | SUGGESTED CORRECTION | SERIAL NUMBER: _09/186,869_ |
|---|---|---|

**ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE**

1 _____ Wrapped Nucleics

The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

2 _____ Wrapped Aminos

The amino acid number/text at the end of each line "wrapped " down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

3 _____ Incorrect Line Length

The rules require that a line not exceed 72 characters in length. This includes spaces.

4 _____ Misaligned Amino Acid Numbering

The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
between the numbering. It is recommended to delete any tabs and use spacing between the numbers.

5 _____ Non-ASCII

This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.

6 _____ Variable Length

Sequence(s) _____ contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.

7 _____ PatentIn ver. 2.0 "bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) _____. Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence.

8 _____ Skipped Sequences (OLD RULES)

Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence:
**(2) INFORMATION FOR SEQ ID NO:X:**
**(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")**
**(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:**
**This sequence is intentionally skipped**

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).

9 _____ Skipped Sequences (NEW RULES)

Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence.
**<210>  sequence id number**
**<400>  sequence id number**
**000**

10 _____ Use of n's or Xaa's (NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and  which residue n or Xaa represents.

11 _____ Use of <213>Organism (NEW RULES)

Sequence(s) _____ are missing this mandatory field or its response.

12 _____ Use of <220>Feature (NEW RULES)

Sequence(s) _____ are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
**Please explain source of genetic material in <220> to <223> section.**
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32)    (Sec. 1.823 of new Rules)

13 _____ PatentIn ver. 2.0 "bug"

**Please do not use "Copy to Disk" function of PatentIn version 2.0.** This causes a corrupted
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

N/A

APR 7

1634

PAGE:     1                    RAW SEQUENCE LISTING              DATE: 05/20/1999
                        PATENT APPLICATION US/09/186,869         TIME: 11:46:38

                                                         Input Set: I186869.RAW

see pp.5,2,4

┌─────────────────────────────────────────────────────────┐
│   This Raw Listing contains the General Information       │
│   Section and up to first 5 pages.                        │
└─────────────────────────────────────────────────────────┘

*Does Not Comply*
*Corrected Diskette Needed*

```
         1   <110> Hasel, Karl W.
         2         Hilbush, Brian S.
         3   <120> Method For Indexing And Determining
         4         The Relative Concentration Of Expressed Messenger RNAs
         5   <130> 98,429
         6   <140> US/09/186,869
         7   <141> 1998-11-04
E-->     8   <160> 51
         9   <210> 1
        10   <211> 14
        11   <212> DNA
        12   <213> Artificial Sequence
        13   <220>
        14   <223> Description of Artificial Sequence:synthetic
        15         primer
        16   <400> 1
        17         aactggaaga attc                                            14
        18   <210> 2
        19   <211> 14
        20   <212> DNA
        21   <213> Artificial Sequence
        22   <220>
        23   <223> Description of Artificial Sequence:synthetic
        24         primer
        25   <400> 2
        26         gaattcaact ggaa                                            14
        27   <210> 3
        28   <211> 46
        29   <212> DNA
        30   <213> Artificial Sequence
        31   <220>
        32   <223> Description of Artificial Sequence:synthetic
        33         primer
        34   <400> 3
        35         aactggaaga attcgcggcc gcaggaattt tttttttttt ttttv          46
        36   <210> 4
        37   <211> 47
        38   <212> DNA
        39   <213> Artificial Sequence
        40   <220>
        41   <223> Description of Artificial Sequence:synthetic
        42         primer
        43   <400> 4
W-->    44         aactggaaga attcgcggcc gcaggaattt tttttttttt tttttvn        47
```

← insert a hard return after "51", so that the "<170>" numeric identifier and response can be shown. They are at far right margin.

see item 10 on Error Summary Sheet

```
       45   <210> 5
       46   <211> 48
       47   <212> DNA
       48   <213> Artificial Sequence
       49   <220>
       50   <223> Description of Artificial Sequence:synthetic
       51        primer
       52   <400> 5
W-->   53        aactggaaga attcgcggcc gcaggaattt tttttttttt tttttvnn              48
       54   <210> 6
       55   <211> 47
       56   <212> DNA
       57   <213> Artificial Sequence
       58   <220>
       59   <223> Description of Artificial Sequence:synthetic
       60        primer
       61   <400> 6
       62        gaattcaact ggaagcggcc cgcaggaatt tttttttttt tttttv                47
       63   <210> 7
       64   <211> 48
       65   <212> DNA
       66   <213> Artificial Sequence
       67   <220>
       68   <223> Description of Artificial Sequence:synthetic
       69        primer
       70   <400> 7
W-->   71        gaattcaact ggaagcggcc cgcaggaatt tttttttttt tttttvnn              48
       72   <210> 8
       73   <211> 49
       74   <212> DNA
       75   <213> Artificial Sequence
       76   <220>
       77   <223> Description of Artificial Sequence:synthetic
       78        primer
       79   <400> 8
W-->   80        gaattcaact ggaagcggcc cgcaggaatt tttttttttt ttttttvnn             49
       81   <210> 9
       82   <211> 116
       83   <212> DNA
       84   <213> Artificial Sequence
       85   <220>
       86   <223> Description of Artificial Sequence:synthetic
       87        primer
       88   <400> 9
       89        gagctccacc gcggtgtcac gactatctgc ggccgcatgc ccgggaatgg cgcctcgaga   60
       90        cgtctttatc gataccgtcg acctcgaact cgagacgtcc cggcgcccta ggtacc       116
       91   <210> 10
```

```
 92    <211> 113
 93    <212> DNA
 94    <213> Artificial Sequence
 95    <220>
 96    <223> Description of Artificial Sequence:synthetic
 97          primer
 98    <400> 10
 99          gagctcgttt tcccagtcac gactatctgc ggccgcatgc ccgggaatgg cgcctcgaga    60
100          cgttatcgat tagcctgact gaagactcga cgtcccgg gcgcctaggt acc            113
101    <210> 11
102    <211> 113
103    <212> DNA
104    <213> Artificial Sequence
105    <220>
106    <223> Description of Artificial Sequence:synthetic
107          primer
108    <400> 11
109          gagctcgttt tcccagtcac gactatctgc ggccgcatgc ccgggaatgg cgcctcgaga    60
110          cgtctatatc gattagcctg actgaagact cgagacgtcc cgggctaggt acc           113
111    <210> 12
112    <211> 62
113    <212> DNA
114    <213> Artificial Sequence
115    <220>
116    <223> Description of Artificial Sequence:synthetic
117          primer
118    <400> 12
119          gcggccgcat agatctgata tcggatcctc accacagagc tcagtgagag agatctctcg    60
120          ag                                                                  62
121    <210> 13
122    <211> 62
123    <212> DNA
124    <213> Artificial Sequence
125    <220>
126    <223> Description of Artificial Sequence:synthetic
127          primer
128    <400> 13
129          gcggccgcat ccatgggata tcgcatgctc accacagtcg acagtgagag ccatggctcg    60
130          ag                                                                  62
131    <210> 14
132    <211> 16
133    <212> DNA
134    <213> Artificial Sequence
135    <220>
136    <223> Description of Artificial Sequence:synthetic
137          primer
138    <400> 14
139          aggtcgacgg tatcgg                                                    16
140    <210> 15
141    <211> 17
```

```
        142    <212> DNA
        143    <213> Artificial Sequence
        144    <220>
        145    <223> Description of Artificial Sequence:synthetic
        146          primer
        147    <400> 15
W-->    148          aggtcgacgg tatcggn                                    17
        149    <210> 16
        150    <211> 18
        151    <212> DNA
        152    <213> Artificial Sequence
        153    <220>
        154    <223> Description of Artificial Sequence:synthetic
        155          primer
        156    <400> 16
W-->    157          aggtcgacgg tatcggnn                                   18
        158    <210> 17
        159    <211> 19
        160    <212> DNA
        161    <213> Artificial Sequence
        162    <220>
        163    <223> Description of Artificial Sequence:synthetic
        164          primer
        165    <400> 17
W-->    166          aggtcgacgg tatcggnnn                                  19
        167    <210> 18
        168    <211> 20
        169    <212> DNA
        170    <213> Artificial Sequence
        171    <220>
        172    <223> Description of Artificial Sequence:synthetic
        173          primer
        174    <400> 18
W-->    175          aggtcgacgg tatcggnnnn                                 20
        176    <210> 19
        177    <211> 21
        178    <212> DNA
        179    <213> Artificial Sequence
        180    <220>
        181    <223> Description of Artificial Sequence:synthetic
        182          primer
        183    <400> 19
W-->    184          aggtcgacgg tatcggnnnn n                               21
        185    <210> 20
        186    <211> 22
```

```
       187    <212> DNA
       188    <213> Artificial Sequence
       189    <220>
       190    <223> Description of Artificial Sequence:synthetic
       191          primer
       192    <400> 20
W-->   193          aggtcgacgg tatcggnnnn nn                              22
```

*Please Note:*
Use of n and/or Xaa have been detected in the Sequence Listing.  Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220> to
<223> fields of each sequence which presents at least one n or Xaa.

| Line | ? | Error/Warning | Original Text |
|------|---|---------------|---------------|
| 8 | E | # of Seq. 5117020 Not Equal Actual 51 | <160> 51 |
| 44 | W | "N" or "Xaa" used: Feature required | aactggaaga attcgcggcc gcaggaattt tttttttt |
| 53 | W | "N" or "Xaa" used: Feature required | aactggaaga attcgcggcc gcaggaattt tttttttt |
| 71 | W | "N" or "Xaa" used:. Feature required | gaattcaact ggaagcggcc cgcaggaatt tttttttt |
| 80 | W | "N" or "Xaa" used: Feature required | gaattcaact ggaagcggcc cgcaggaatt tttttttt |
| 148 | W | "N" or "Xaa" used: Feature required | aggtcgacgg tatcggn |
| 157 | W | "N" or "Xaa" used: Feature required | aggtcgacgg tatcggnn |
| 166 | W | "N" or "Xaa" used: Feature required | aggtcgacgg tatcggnnn |
| 175 | W | "N" or "Xaa" used: Feature required | aggtcgacgg tatcggnnnn |
| 184 | W | "N" or "Xaa" used: Feature required | aggtcgacgg tatcggnnnn n |
| 193 | W | "N" or "Xaa" used: Feature required | aggtcgacgg tatcggnnnn nn |
| 211 | W | "N" or "Xaa" used: Feature required | ggtcgacggt atcggn          16 |
| 220 | W | "N" or "Xaa" used: Feature required | gtcgacggta tcggnn          16 |
| 229 | W | "N" or "Xaa" used: Feature required | tcgacggtat cggnnn          16 |
| 238 | W | "N" or "Xaa" used: Feature required | cgacggtatc ggnnnn          16 |
| 247 | W | "N" or "Xaa" used: Feature required | gacggtatcg gnnnnn          16 |
| 256 | W | "N" or "Xaa" used: Feature required | acggtatcgg nnnnnn          16 |
| 274 | W | "N" or "Xaa" used: Feature required | gctctgtggt gaggatcn               18 |
| 283 | W | "N" or "Xaa" used: Feature required | ctctgtggtg aggatcnn               18 |
| 292 | W | "N" or "Xaa" used: Feature required | tctgtggtga ggatcnnn               18 |
| 301 | W | "N" or "Xaa" used: Feature required | ctgtggtgag gatcnnnn               18 |
| 310 | W | "N" or "Xaa" used: Feature required | tgtggtgagg atcnnnnn               18 |
| 319 | W | "N" or "Xaa" used: Feature required | gtggtgagga tcnnnnnn               18 |
| 337 | W | "N" or "Xaa" used: Feature required | cgactgtggt gagcatgn               18 |
| 346 | W | "N" or "Xaa" used: Feature required | gactgtggtg agcatgnn               18 |
| 355 | W | "N" or "Xaa" used: Feature required | actgtggtga gcatgnnn               18 |
| 364 | W | "N" or "Xaa" used: Feature required | ctgtggtgag catgnnnn               18 |
| 373 | W | "N" or "Xaa" used: Feature required | tgtggtgagc atgnnnnn               18 |
| 382 | W | "N" or "Xaa" used: Feature required | gtggtgagca tgnnnnnn               18 |
| 454 | W | "N" or "Xaa" used: Feature required | gtcttcagtc aggctaatcg gn      22 |
| 463 | W | "N" or "Xaa" used: Feature required | cctcgaggtc gacggtatcg gn      22 |